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APPLICATION N	O. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,551	_	07/25/2002	Hans-Peter Bauer	10191/2327	6675
26646	7590	10/16/2003		EXAMI	NER
	N & KENY	ON	FASTOVSKY, LEONID M		
ONE BROADWAY NEW YORK, NY 10004		0004		ART UNIT	PAPER NUMBER
	·			3742	
				DATE MAILED: 10/16/2003	\hat{Q}

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	10/088,551	BAUER ET AL.				
emeericaen cammary	Examiner	Art Unit				
The MAILING DATE of this communicati	Leonid M Fastovsky on appears on the cover sheet wi	th the correspondence address				
Period for Reply	••	·				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) daysed in 16 NO period for reply is specified above, the maximum statutory. Failure to reply within the set or extended period for reply will, it is any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a retition. s, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MON by statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed of	on <u>25 July 2002</u> .					
2a) ☐ This action is FINAL . 2b) [2]	∑ This action is non-final.					
3) Since this application is in condition for						
closed in accordance with the practice Disposition of Claims	under <i>Ex par</i> te <i>Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.				
4)⊠ Claim(s) <u>10-18</u> is/are pending in the app						
4a) Of the above claim(s) is/are w	ithdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>10-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers 9)⊠ The specification is objected to by the Ex	aminor	·				
10) ☐ The specification is objected to by the Ex		to by the Eveniner				
Applicant may not request that any objection	· · · · · · · · · · · · · · · · · · ·					
11) The proposed drawing correction filed on						
If approved, corrected drawings are require		cappiotoa by the Examinon.				
12) The oath or declaration is objected to by	the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for	foreign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a)⊠ All b) Some * c) None of:						
1. Certified copies of the priority doci	uments have been received.					
2. Certified copies of the priority doc	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the application from the Internation * See the attached detailed Office action for 	nal Bureau (PCT Rule 17.2(a)).	•				
14)☐ Acknowledgment is made of a claim for do	·					
a) The translation of the foreign langua	ge provisional application has be	een received.				
Attachment(s)	omesue priority under 33 0.3.0.	33 120 and/or 121.				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449) Paper	48) 5) Notice of I	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. The disclosure is objected to because of the following informalities: a housing 10 is listed as 300 (Page 3, line29).

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 10 is rejected under 35 U.S.C. 102(a) as being anticipated by Uhl (6,555,788).

Uhl teaches a sheathed glow plug 1 for a self- igniting internal combustion engine, comprising a heating element 3 projecting into a combustion chamber and a current feed through (Abstract), a body 4, and a switch 7 positioned in the region of the current feed-through, and the heating element 3 is adapted to be controlled by control device 10 for opening and closing the switch.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 11-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uhl in view of Haussner et al (6,150,634) and Ito et al (4,598,676).

Uhl discloses substantially the claimed features including a control device 10 with a control unit 15 for opening and closing the switch, and the switch is integrated or modularly arranged with a control circuit 8, but does not disclose a material for a glow element and that the control circuit 8 is positioned in the region of the current feed-through and means for determining a temperature for a heating element and current control. Haussner shows a ceramic material (Col.2, lines 37-43), an electronic component 6 and Ito et al shows a first feed line 6c, a second feed line 6b connected to the switching circuit 9, and means 95 for determining a temperature for a heating element (Col. 3, lines 60-68, Col. 4, lines 1-60). It would have been obvious to one having ordinary skill in the art to adapt a modified invention of Uhl to include a ceramic material for the heating element, as well known in the art, and a control circuit as taught by Haussner for producing a signal for opening and closing the switch, and means for determining the temperature of a heating element as taught by Ito to control a heating current as a function of a signal from the means.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid M Fastovsky whose telephone number is 703-306-5482. The examiner can normally be reached on M-Th. 8.00 am -6.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sang Paik can be reached on 703-308-1147. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0861.

Leonid M Fastovsky Examiner Art Unit 3742

lmf

SANG Y. PAIK PRIMARY EXAMINER

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